



TechRate
AUDIT COMPANY

GoldenDoge

Smart Contract Security Audit

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Background

TechRate was commissioned by GoldenDoge to perform an audit of smart contracts:

<https://bscscan.com/address/0xa53e61578ff54f1ad70186be99332a6e20b6ffa9#code>

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

Issues Checking Status

Issue description		Checking status
1.	Compiler errors.	Passed
2.	Race conditions and Reentrancy. Cross-function race conditions.	Passed
3.	Possible delays in data delivery.	Passed
4.	Oracle calls.	Passed
5.	Front running.	Passed
6.	Timestamp dependence.	Passed
7.	Integer Overflow and Underflow.	Passed
8.	DoS with Revert.	Passed
9.	DoS with block gas limit.	Low Issues
10.	Methods execution permissions.	Passed
11.	Economy model of the contract.	Medium Issue
12.	The impact of the exchange rate on the logic.	Passed
13.	Private user data leaks.	Passed
14.	Malicious Event log.	Passed
15.	Scoping and Declarations.	Passed
16.	Uninitialized storage pointers.	Passed
17.	Arithmetic accuracy.	Passed
18.	Design Logic.	Medium Issue
19.	Cross-function race conditions.	Passed
20.	Safe Open Zeppelin contracts implementation and usage.	Passed
21.	Fallback function security.	Passed

Security Issues

✓ High Severity Issues

No high severity issues found.

✓ Medium Severity Issues

1. Calculation error

Issue:

- The function `_takeLiquidity()` assigns `tLiquidity` value to global variable `_liquidityAmount`.

Recommendation:

Add `tLiquidity` value to `_liquidityAmount`. Do not rewrite it.

2. Percentage error

Issue:

The function `claimBNBReward()` uses `_charityFeePercent` for dividing not for getting percent.

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Recommendation:

Rename the variable or change percentage getting logic.

✓ Low Severity Issues

3. Out of gas

Issue:

- The function `includeInReward()` uses the loop to find and remove addresses from the `_excluded` list. Function will be aborted with `OUT_OF_GAS` exception if there will be a long excluded addresses list.
- The function `_getCurrentSupply` also uses the loop for evaluating total supply. It also could be aborted with `OUT_OF_GAS` exception if there will be a long excluded addresses list.

Recommendation:

Check that the excluded array length is not too big.

Information

1. Pancake migration

Add pancake migration possibility to contract.

2. Auto liquidity

Contract has no auto-liquidity feature. All swapped funds can be transferred by the owner or automatically to `_liquidityAddress`.

Owner privileges (In the period when the owner is not renounced)

- Owner can lock and unlock. By the way, using these functions the owner could leave as owner even after the ownership was renounced.
- Owner can exclude(include) from fee, from bot list and from rewards.
- Owner can change charity, tax and liquidity fee precents.
- Owner can change the maximum transaction amount.
- Owner can enable/disable swap and liquify feature.
- Owner can change reward cycle block.
- Owner can change liquidity and charity addresses.
- Owner can enable/disable charity feature.
- Owner can change reward threshold value.
- Owner can change threshold top up rate.
- Owner can set next available claim date.
- Owner can withdraw BNB.

Conclusion

Smart contracts contain medium and low severity issues! Liquidity pair contract's security is not checked due to out of scope.

Liquidity locking details NOT provided by the team.

TechRate note:

Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.



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